

REDUCTION OF *STREPTOCALYX* (BROMELIACEAE: BROMELIOIDEAE)

Lyman B. Smith & Michael A. Spencer

Department of Botany, National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560 U.S.A.

ABSTRACT

*Streptocalyx* is reduced to *Aechmea* and new combinations are provided where necessary.

KEY WORDS: *Aechmea*, *Streptocalyx*, Bromeliaceae

In Flora Neotropica Monograph No. 14 (Smith & Downs 1979), the genera *Aechmea* and *Streptocalyx* are distinguished from one another on the basis of the presence or absence, respectively, of petal appendages. More recently, petal appendages have proven unacceptable as a delimiting generic character in Bromeliaceae where groups of closely related species are segregated solely on the basis of this character. An example is *Streptocalyx*, which in all other respects is identical to *Aechmea* sensu Smith & Kress (1989). Baker (1889) was the first to comment on the artificiality of *Aechmea* versus *Streptocalyx*, and considered them "scarcely worth separating." We agree completely with Baker and here reduce *Streptocalyx* to synonymy. The appropriate names in *Aechmea* for taxa previously treated as *Streptocalyx* follow.

*Aechmea* Ruiz & Pavon, *Fl. Peruv. Prodr.* 47. 1793, *nomen conservandum*.

*Streptocalyx* Beer, *Flora* 37:348. 1854. *syn. nov.*

*Aechmea arenaria* (Ule) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx arenarius* Ule, *Verh. Bot. Brandenb.* 48:134. 1907. TYPE: PERU. *Ule 6335* (HOLOTYPE: B; Isotype: MG).

*Aechmea biflora* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx biflorus* L.B. Smith, *Phytologia* 24:448, pl. 5, figs. 15, 16. 1972. TYPE: ECUADOR. *Dodson & Thien 2070* (HOLOTYPE: WIS).

- Aechmea beeriana* Smith & Spencer, *nom. nov.* Based on: *Streptocalyx poeppigii* Beer, *Bromel.* 141. 1856; non *Aechmea poeppigii* Baker, *Handb. Bromel.* 37. 1889. TYPE: BRAZIL. *Poeppig s.n.* (LECTOTYPE: B).
- Aechmea brachystachya* (Harms) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx brachystachys* Harms, *Notizbl. Bot. Gart. Berlin* 9:1152. 1927. TYPE: PERU. *Tessmann 4645* (HOLOTYPE: B).
- Aechmea colombiana* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx colombianus* L.B. Smith, *Caldasia* [1], No. 5:9, fig. 5. 1942. TYPE: COLOMBIA. *Cuatrecasas 6863* (HOLOTYPE: US; Isotype: COL).
- Aechmea colombiana* (L.B. Smith) Smith & Spencer var. *laxa* (E. Gross) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx colombianus* L.B. Smith var. *laxus* E. Gross, *Trop. Subtrop. Pflanzenwelt* 65:72, figs. 44, 45. 1989. TYPE: COLOMBIA. *Rauh 37422* (HOLOTYPE: HEID).
- Aechmea curranii* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx curranii* L.B. Smith, *Contr. Gray Herb.* 95:44, pl. 11, figs. 7-9. 1931. TYPE: BRAZIL. *Curran 143* (HOLOTYPE: US).
- Aechmea floribunda* Martius ex Schultes f. in Roemer & Schultes, *Syst.* 7(2): 1271. 1830. TYPE: BRAZIL. *Martius s.n.* (HOLOTYPE: M). *Streptocalyx floribundus* (Martius ex Schultes f.) Mez in Martius, *Fl. Bras.* 3(3):284. 1892.
- Aechmea fuerstenbergii* E. Morren & Wittmack, *Belg. Hortic.* 29:42, pl. 2. 1879. TYPE: BRAZIL. *Porte s.n.* (HOLOTYPE: LG). *Streptocalyx fuerstenbergii* (E. Morren & Wittmack) E. Morren, *Belg. Hortic.* 33:16. 1883.
- Aechmea geminiflora* (Harms) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx geminiflorus* Harms, *Notizbl. Bot. Gart. Berlin* 12:527. 1935. TYPE: ECUADOR. *Diels 1109* (HOLOTYPE: B).
- Aechmea kentii* (Luther) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx kentii* Luther, *Selbyana* 12:83, 86, fig. 14. 1992. TYPE: ECUADOR. *Kent s.n.* (HOLOTYPE: SEL; Isotype: QCA).
- Aechmea lanata* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx lanatus* L.B. Smith, *Contr. Gray Herb.* 95:45, pl. 11, figs. 4, 5. 1931. TYPE: BRAZIL. *Curran 138* (HOLOTYPE: US).
- Aechmea longifolia* (Rudge) Smith & Spencer, *comb. nov.* BASIONYM: *Bromelia longifolia* Rudge, *Guyan.* 1:31. pl. 49. 1805. TYPE: FRENCH

GUIANA. *Martin s.n.* (HOLOTYPE: BM). *Streptocalyx longifolius* (Rudge) Baker, *Handb. Bromel.* 31. 1889.

*Aechmea lugoi* (Gilmartin & Luther) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx lugoi* Gilmartin & Luther, *J. Brom. Soc.* 40(5):208, fig. 8. 1990. TYPE: ECUADOR. *Lugo 308* (HOLOTYPE: S; Isotype: MO).

*Aechmea murcae* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx murcae* L.B. Smith, *Phytologia* 7:110, pl. 1, figs. 20-24. 1960. TYPE: BRAZIL. *Murca-Pires 951* (HOLOTYPE: IAN).

*Aechmea napoensis* Smith & Spencer, *nom. nov.* Based on: *Streptocalyx pallidus* Luther, *J. Brom. Soc.* 30(6):256-258, fig. 1980; non *Aechmea pallida* L.B. Smith, *Mem. New York Bot. Gard.* 10:40, fig. 1964. TYPE: ECUADOR. *Luther s.n.* (HOLOTYPE: SEL).

*Aechmea poitaei* (Baker) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx poitaei* Baker, *Handb. Bromel.* 31. 1889. TYPE: FRENCH GUIANA. *Poiteau s.n.* (HOLOTYPE: K).

*Aechmea seidelii* (Leme) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx seidelii* Leme, *Bradea* 4(39):313. 1987. TYPE: BRAZIL. *Seidel 1056* (HOLOTYPE: HB).

*Aechmea williamsii* (L.B. Smith) Smith & Spencer, *comb. nov.* BASIONYM: *Streptocalyx williamsii* L.B. Smith, *Contr. Gray Herb.* 98:14, pl. 4, fig. 7. 1932. TYPE: PERU. *Williams 2722* (HOLOTYPE: F).

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#### LITERATURE CITED

- Baker, J.G. 1889. *The Handbook of the Bromeliaceae*. George Bell and Sons, London, U.K.
- Smith, Lyman B. & R.J. Downs. 1979. Bromelioideae (Bromeliaceae). *Flora Neotropica Monograph* No. 14(3), New York Botanical Garden, New York.
- Smith, L.B. & W.J. Kress. 1989. New or restored genera of Bromeliaceae. *Phytologia* 66(1):70-79.